



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,567	11/19/2003	Ching-Fa Shiao	SHIA3006/EM	5064

23364 7590 11/17/2004

BACON & THOMAS, PLLC  
625 SLATERS LANE  
FOURTH FLOOR  
ALEXANDRIA, VA 22314

EXAMINER

WALBERG, TERESA J

ART UNIT PAPER NUMBER

3742

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

TW

<b>Office Action Summary</b>	<b>Application No.</b> 10/715,567	<b>Applicant(s)</b> SHIAO, CHING-FA	
	<b>Examiner</b> Teresa J. Walberg	<b>Art Unit</b> 3742	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 November 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

### DETAILED ACTION

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because Figs. 4A and 4B should be labeled "Prior Art". Applicant is advised to employ the services of a competent patent draftsman outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.
2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee (6,619,381).

Lee discloses a heat sink assembly (see Figs. 4-6) including a plurality of heat dissipating fins with each said heat dissipating fin (Fig. 5) including a body plate (70), and a pair of corresponding horizontal portions (71, 72), the horizontal portions being formed by extending from both end of said body plate and being perpendicular to said body plate (70), each said horizontal portion comprising at least one slot (711, 721) wherefrom a protrusion (712, 722) being extended, a fastener (713, 723) being extended downwardly from said protrusion (712, 722),

Art Unit: 3742

adjacent said heat dissipating fins being fastened to form a heat sink assembly (see Figs. 6 and 7) via said slot (711, 721) and said fastener (713, 723) of said protrusion (712, 722).

With respect to claim 2, the heat sink assembly is formed according to the number of heat dissipating fins required. See col. 1, lines 44-45.

4. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsai (6,449,160).

Tsai discloses a heat sink assembly (see Fig. 5) including a plurality of heat dissipating fins (Fig. 3) with each said heat dissipating fin (1) including a body plate, and a pair of corresponding horizontal portions (11, 12), the horizontal portions (11, 12) being formed by extending from both ends of said body plate and being perpendicular to said body plate, each said horizontal portion (11, 12) comprising at least one slot (111, 121) wherefrom a protrusion (112, 122) being extended, a fastener (see Fig. 4) being extended downwardly from said protrusion (112, 122), adjacent said heat dissipating fins being fastened to form a heat sink assembly (see Fig. 3) via said slot (111, 121) and said fastener of said protrusion (112, 122).

With respect to claim 2, the heat sink assembly is formed according to the number of heat dissipating fins required. See col. 1, lines 24-27.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wang et al, Hsin et al, Ho et al, Shen, Mochizuki et al, Kubo, Chang et al, and Huang et al are cited to show fin connecting structure.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 703-308-1327. The examiner can normally be reached on M-F 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 703-305-5766. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Teresa J. Walberg  
Primary Examiner  
Art Unit 3742

tjw